

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for validating transaction requests from a plurality of clients to access a database ~~and configuring a database transaction request~~, the method comprising the computer implemented steps of:

providing an interface to validate transaction requests to access a database, using a plurality of validation criteria, from said plurality of clients having different requirements for said validation criteria, said interface in a singleton in-memory object;

using said different requirements to determine whether to validate said transaction requests from said plurality of clients; and

generating a database command that has a standard format in response to validated transaction requests, wherein said standard format database command is generated in response to a validated transaction request regardless of which one of said plurality of clients sent said validated transaction request.

~~identifying a first transaction criteria of a plurality of transaction criteria in a singleton in-memory object by reading a client identifier element value specified in a database transaction request, wherein each of the plurality of transaction criteria is associated with a respective client;~~

~~determining default data for a database path based on the client identifier element value; and
generating a database command including the default data.~~

2. (Currently amended) The method of claim 1, further comprising:

said interface including:

said database command including a plurality of mandatory fields;

associating a first one of said plurality of validation criteria with one of said plurality of mandatory fields, wherein data that is received for said first one of said plurality of validation criteria is included in said one of a plurality of mandatory fields;

defining a first requirement for validating said transaction requests from first ones of said plurality of clients using said first one of said plurality of validation criteria, said first requirement requiring data to be included in said transaction requests from said first ones of said plurality of clients for said first one of said plurality of validation criteria;

defining a second requirement for validating said transaction requests from second ones of said plurality of clients using said first one of said plurality of validation criteria, said second requirement not requiring data to be included in said transaction requests from said second ones of said plurality of clients for said first one of said plurality of validation criteria;

in response to receiving a first transaction request from one of said first ones of said plurality of clients: validating said first transaction request if said first transaction request includes first data for said first one of said plurality of validation criteria; and if said first transaction has been validated, generating a database command that includes said first data in said one of said plurality of mandatory fields;

in response to receiving a second transaction request from one of said second ones of said plurality of clients: validating said second transaction request regardless of whether said second transaction includes second data for said first one of said plurality of validation criteria; if said second transaction request does not include said second data, determining default data that has been specified for said second ones of said plurality of clients to use for said first one of said plurality of validation criteria; and if said second transaction has been validated, generating a database command that includes said default data in said one of said plurality of mandatory fields; and

wherein said interface validates transaction requests from ones of said plurality of clients having different requirements for validating transaction requests.

~~wherein the database transaction request is included in an extensible markup language document.~~

3. (Currently amended) The method of claim 2 [[1]], ~~wherein the step of determining includes further comprising:~~

associating a second one of said plurality of validation criteria with a second one of said plurality of mandatory fields;

defining a third requirement for validating said transaction requests from said first ones of said plurality of clients using said second one of said plurality of validation criteria, said third requirement not requiring data in said transaction requests from said first ones of said plurality of clients for said second one of said plurality of validation criteria; and

in response to receiving said first transaction request: validating said first transaction request if said first transaction request includes said first data and regardless of whether said first transaction includes second data for said second one of said plurality of validation criteria; if said first request does not include data for said second one of said plurality of validation criteria, determining second default data that has been specified for said first ones of said plurality of clients to use for said second one of said plurality of validation criteria; and if said first transaction request has been validated, generating a

database command that includes said first data in said one of said plurality of mandatory fields and said second default data in said second one of said plurality of mandatory fields.

~~determining the transaction request does not specify data for the database path.~~

4. (Currently amended) The method of claim 2 [[3]], further including:

in response to receiving said first transaction request: generating an exception if said first transaction request does not include said first data, wherein said first request is not validated.

~~evaluating a required element of the first transaction criteria; and~~

~~responsive to evaluating the required element, determining the database transaction request is not required to specify data for the database path.~~

5. (Currently amended) The method of claim 1, wherein the database command is a structured query language command, and wherein each one of said transaction requests is included in an extensible markup language document.

6. (Currently amended) The method of claim 1, further comprising:

providing a requirements table that defines, for each one of said plurality of clients, a requirement for said plurality of validation criteria.

~~including identifying a second transaction criteria by reading a client identifier element value specified in a second database transaction request; and~~

~~determining the second database transaction request does not include data for a database path specified in the second transaction criteria.~~

7. (Currently amended) The method of claim 6 [[7]], further including:

receiving a particular transaction request that includes a client identifier that identifies one of said plurality of clients; and

using said client identifier to access said requirements table to read a requirement for one of said plurality of validation criteria that has been defined for said identified one of said plurality of clients.

~~evaluating a required element of the second transaction criteria; and~~

~~generating an error.~~

8. (Currently amended) The method of claim 6 [[7]], further comprising:

said requirements table specifying said default data for said second ones of said plurality of clients to use for said first one of said plurality of validation criteria.

~~wherein the required element indicates the second database transaction request is required to include data for the database path specified in the second transaction criteria.~~

9. (Canceled)

10. (Currently amended) A computer program product ~~in a computer readable medium for validating a database transaction request, the computer program product comprising:~~

a computer usable medium including computer usable program code for validating transaction requests from a plurality of clients, said computer program product including:

computer usable program code for providing an interface to validate said transaction requests to access a database, using a plurality of validation criteria, from said plurality of clients having different requirements for said plurality of validation criteria, said interface in a singleton in-memory object; and

computer usable program code for using said different requirements to determine whether to validate said transaction requests from said plurality of clients; and

computer usable program code for generating a database command that has a standard format in response to validated transaction requests, wherein said standard format database command is generated in response to a validated transaction request regardless of which one of said plurality of clients sent said validated transaction request.

~~first instructions for reading transaction request element values including a client identifier element value from a database transaction request; and~~

~~second instructions for identifying a first transaction criteria of a plurality of transaction criteria of a singleton in-memory object based on the client identifier element value, responsive to determining data for a database path specified in the first transaction criteria is not included by the transaction request element values, generating a database command including default data for the database path.~~

11. (Currently amended) The computer program product of claim 10, further comprising:

said interface including:

said database command including a plurality of mandatory fields;

computer usable program code for associating a first one of said plurality of validation criteria with one of a plurality of mandatory fields of said database command, wherein data that is received for said first one of said plurality of validation criteria is included in said one of said plurality of mandatory fields;

computer usable program code for defining a first requirement for validating transaction requests from first ones of said plurality of clients using said first one of said plurality of validation criteria, said

first requirement requiring data to be included in said transaction requests from said first ones of said plurality of clients for said first one of said plurality of validation criteria;

computer usable program code for defining a second requirement for validating transaction requests from second ones of said plurality of clients using said first one of said plurality of validation criteria, said second requirement not requiring data to be included in said transaction requests from said second ones of said plurality of clients for said first one of said plurality of validation criteria;

in response to receiving a first transaction request from one of said first ones of said plurality of clients: computer usable program code for validating said first transaction request if said first transaction request includes first data for said first one of said plurality of validation criteria; and if said first transaction has been validated, generating a database command that includes said first data in said one of said plurality of mandatory fields;

in response to receiving a second transaction request from one of said second ones of said plurality of clients: computer usable program code for validating said second transaction request regardless of whether said second transaction includes second data for said first one of said plurality of validation criteria; if said second transaction request does not include said second data, determining default data that has been specified for said second ones of said plurality of clients to use for said first one of said plurality of validation criteria; and if said second transaction has been validated, generating a database command that includes said default data in said one of said plurality of mandatory fields; and

wherein said interface validates transaction requests from ones of said plurality of clients having different requirements for validating transaction requests.

~~wherein the database transaction request is an extensible markup language document.~~

12. (Currently amended) The computer program product of claim 11 [[10]], further comprising:
computer usable program code for associating a second one of said plurality of validation criteria with a second one of said plurality of mandatory fields;

computer usable program code for defining a third requirement for validating said transaction requests from said first ones of said plurality of clients using said second one of said plurality of validation criteria, said third requirement not requiring data in said transaction requests from said first ones of said plurality of clients for said second one of said plurality of validation criteria; and

in response to receiving said first transaction request: computer usable program code for validating said first transaction request if said first transaction request includes said first data and regardless of whether said first transaction includes second data for said second one of said plurality of validation criteria; if said first request does not include data for said second one of said plurality of validation criteria, determining second default data that has been specified for said first ones of said

plurality of clients to use for said second one of said plurality of validation criteria; and if said first transaction request has been validated, generating a database command that includes said first data in said one of said plurality of mandatory fields and said second default data in said second one of said plurality of mandatory fields.

~~wherein the first instructions are an extensible markup language parser.~~

13. (Currently amended) The computer program product of claim 10, wherein the database command is a structured query language command, and wherein each one of the transaction requests is an extensible markup language document.

14. (Currently amended) The computer program product of claim 10, further comprising:
computer usable program code for providing a requirements table that defines, for each one of said plurality of clients, a requirement for said ones of said plurality of validation criteria.
~~wherein the default data is specified by the first transaction criteria.~~

15. (Currently amended) A data processing system for validating transaction requests from a plurality of clients, database transaction requests comprising:

a memory that contains a set of instructions and a singleton in-memory object; and
a processing unit, responsive to execution of the set of instructions, for:
providing an interface to validate transaction requests to access a database, using a plurality of validation criteria, from said plurality of clients having different requirements for said plurality of validation criteria, said interface in a singleton in-memory object;

using said different requirements to determine whether to validate said transaction requests from said plurality of clients; and

generating a database command that has a standard format in response to validated transaction requests, wherein said standard format database command is generated in response to a validated transaction request regardless of which one of said plurality of clients sent said validated transaction request.

~~reading element values including a client identifier element value of a database transaction request and identifying a transaction criteria of the singleton in memory object based on the client identifier element value, wherein default data is identified for the database transaction request in response to determining data for a database path is not provided in the transaction request, the processing unit generating a database command including the default data.~~

16. (Currently amended) The data processing system of claim 15, further comprising:
said interface including;
said database command including a plurality of mandatory fields;
associating a first one of said plurality of validation criteria with one of said plurality of
mandatory fields, wherein data that is received for said first one of said plurality of validation criteria is
included in said one of said plurality of mandatory fields;
defining a first requirement for validating said transaction requests from first ones of said
plurality of clients using said first one of said plurality of validation criteria, said first requirement
requiring data to be included in said transaction requests from said first ones of said plurality of clients for
said first one of said plurality of validation criteria;
defining a second requirement for validating said transaction requests from second ones of said
plurality of clients using said first one of said plurality of validation criteria, said second requirement not
requiring data to be included in said transaction requests from said second ones of said plurality of clients
for said first one of said plurality of validation criteria;
in response to receiving a first transaction request from one of said first ones of said plurality of
clients: validating said first transaction request if said first transaction request includes first data for said
first one of said plurality of validation criteria; and if said first transaction has been validated, generating a
database command that includes said first data in said one of said plurality of mandatory fields;
in response to receiving a second transaction request from one of said second ones of said
plurality of clients: validating said second transaction request regardless of whether said second
transaction includes second data for said first one of said plurality of validation criteria; if said second
transaction request does not include said second data, determining default data that has been specified for
said second ones of said plurality of clients to use for said first one of said plurality of validation criteria;
and if said second transaction has been validated, generating a database command that includes said
default data in said one of said plurality of mandatory fields; and
wherein said interface validates transaction requests from ones of said plurality of clients having
different requirements for validating transaction requests.
~~a network adapter for receiving the database transaction request.~~

17. (Currently amended) The data processing system according to claim 16 [[15]], further comprising
said processing unit, responsive to execution of the set of instructions, for:
associating a second one of said plurality of validation criteria with a second one of said plurality
of mandatory fields;

defining a third requirement for validating said transaction requests from said first ones of said plurality of clients using said second one of said plurality of validation criteria, said third requirement not requiring data in said transaction requests from said first ones of said plurality of clients for said second one of said plurality of validation criteria; and

in response to receiving said first transaction request: validating said first transaction request if said first transaction request includes said first data and regardless of whether said first transaction includes second data for said second one of said plurality of validation criteria; if said first request does not include data for said second one of said plurality of validation criteria, determining second default data that has been specified for said first ones of said plurality of clients to use for said second one of said plurality of validation criteria; and if said first transaction request has been validated, generating a database command that includes said first data in said one of said plurality of mandatory fields and said second default data in said second one of said plurality of mandatory fields.

~~wherein the default data is specified by the transaction criteria.~~

18. (Currently amended) The data processing system according to claim 16 [[15]], further comprising said processing unit, responsive to execution of the set of instructions, for:

in response to receiving said first transaction request from said one of said first ones of said plurality of clients: generating an exception if said first transaction request does not include said first data, wherein said first transaction request is not validated.

~~wherein the processing unit, responsive to reading a client identifier element value of a second database transaction request, generates an error.~~

19. (Currently amended) The data processing system of claim 15 [[18]], further comprising said processing unit, responsive to execution of the set of instructions, for:

providing a requirements table that defines, for each one of said plurality of clients, a requirement for said plurality of validation criteria.

~~wherein the processing unit generates the error upon determining that data for a database path is not specified in the second transaction request and a transaction criteria identified by the client identifier element value of the second database transaction request specifies data for the database path is required.~~

20. (Currently amended) The data processing system of claim 19 [[15]], further comprising said processing unit, responsive to execution of the set of instructions, for:

receiving a particular transaction request that includes a client identifier that identifies one of said plurality of clients; and

using said client identifier to access said requirements table to read a requirement for one of said plurality of validation criteria that has been defined for said identified one of said plurality of clients.
~~wherein a plurality of transaction criteria are identified based on the client identifier element value.~~